



DEPARTMENT OF THE NAVY  
BASE REALIGNMENT AND CLOSURE  
PROGRAM MANAGEMENT OFFICE EAST  
4911 SOUTH BROAD STREET  
PHILADELPHIA, PA 19112-1303

5090  
Ser BPMOE/16-131  
April 29, 2016

SUBJECT: FORMER NAVAL AIR WARFARE CENTER WARMINSTER, PA  
PERFLUORINATED CHEMICAL RESULTS AT STATION LOCATION: 125,  
SAMPLE NUMBER: COBR4, SAMPLE DATE: 3/16/2016

At the request of the U.S. Navy, the U.S. Environmental Protection Agency (EPA) recently collected a well water sample from your property. Your property is referred to as Station Location 125. All reports containing the analytical results of the samples collected from your property will refer to the Station Location and will not contain your name and address. If you have more than one data sheet enclosed for a sample date, then EPA either collected a duplicate sample for quality control, or EPA collected a pre- and post-carbon treatment sample, if existing.

The laboratory analyzed the samples for perfluorinated chemicals (PFCs), including perfluorooctylsulfonic acid (PFOS) and perfluorooctanoic acid (PFOA). The purpose of the sampling was to determine whether the well water has been impacted by PFOS and PFOA, and if additional actions are needed to protect human health. The analytical results for your household are attached, along with additional information to assist you in understanding the results.

There are no drinking water standards for these chemicals under the Safe Drinking Water Act. However, the EPA has issued the following provisional health advisories for PFOS and PFOA. The provisional health advisory level (PHAL) for PFOS is 0.2 micrograms per liter of water ( $\mu\text{g/L}$ ) and 0.4  $\mu\text{g/L}$  for PFOA.

Additional sampling or other actions may occur in the future due to additional understanding of groundwater flow or revised health information.

The results for your drinking water were below the provisional health advisory level for PFOS and PFOA and can continue to be used for drinking and cooking purposes, per the attached fact sheet.

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Understanding Your Data Results:

You will notice that the data report comes with several laboratory descriptions that may not be familiar to you. The following definitions of those descriptions may assist you in understanding your sample results:

- **Limit of Quantitation (LOQ)** - the lowest amount of an analyte (chemical or substance of interest) that can be detected and measured by the laboratory with confidence. Amounts detected below the LOQ are qualified as estimated (J).
- **Limit of Detection (LOD)** - an estimated amount of an analyte (chemical or substance of interest) that can be detected by the laboratory. LOD is determined by testing a known amount of analyte through the analytical process.
- **Method Detection Limit (MDL)** - a calculated determination of the minimum amount of an analyte (chemical or substance of interest) that can be detected by the laboratory.
- **"J" Qualifier Code** - indicates the value reported for the analyte is below the LOQ and was detected. The value reported is considered estimated.
- **Non-Detect (ND)** - indicates the substance was not detected.
- **"X" Qualifier Code** - The upper control criterion was exceeded for sample surrogate. The result may be biased high.
- **Surrogate:** A surrogate substance is added to the sample as a way to ensure quality control during the analytical process.

Thank you for your cooperation as we work to ensure that human health and the environment are protected. If you have additional questions about this letter or the environmental cleanup at the former NAWC Warminster please contact me at e-mail: [willie.lin@navy.mil](mailto:willie.lin@navy.mil) or phone 215-897-4914.

Sincerely,



WILLINGTON LIN, P.E.  
BRAC Environmental Coordinator  
By direction of BRAC PMO

Enclosures: 1. Analytical Results  
2. Fact Sheet

Copy to:  
BRAC PMO files  
EPA Region 3 (R. Scharr)

ALS Group USA, Corp.  
dba ALS Environmental

Analytical Report

Client: Weston Solutions, Incorporated  
Project: EPA Method 537 / 30250.016.001.0035.00/DAS#  
R34420/SDG:C0BQ4  
Sample Matrix: Drinking Water  
Sample Name: NAWC-031616-RW-125/C0BR4  
Lab Code: K1602722-007

Service Request: K1602722  
Date Collected: 03/16/16 13:35  
Date Received: 03/17/16 12:15  
Units: ug/L  
Basis: NA

Determination of Selected Perfluorinated Alkyl Acids in Drinking Water by SPE and LC/MS/MS

Analysis Method: 537  
Prep Method: Method

Analyte Name	Result	LOQ	LOD	MDL	Dil.	Date Analyzed	Date Extracted	Q
Perfluorooctylsulfonic Acid	0.0110 J	0.0370	0.0100	0.0100	1	04/02/16 01:00	3/30/16	
Perfluorooctanoic Acid	0.0125 J	0.0185	0.00700	0.00300	1	04/02/16 01:00	3/30/16	
Perfluoroheptanoic Acid	0.00530 J	0.00926	0.00300	0.00200	1	04/02/16 01:00	3/30/16	
Perfluorononanoic Acid	ND U	0.0185	0.00700	0.00400	1	04/02/16 01:00	3/30/16	
Perfluorobutanesulfonic Acid	ND U	0.0833	0.0300	0.0100	1	04/02/16 01:00	3/30/16	
Perfluorohexylsulfonic Acid	0.0112 J	0.0278	0.0100	0.00400	1	04/02/16 01:00	3/30/16	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Perfluoro-n-[1,2-13C2] hexanoic acid	94	70 - 130	04/02/16 01:00	
Perfluoro-n-[1,2-13C2] decanoic acid	109	70 - 130	04/02/16 01:00	

Handwritten text in a cursive script, likely a signature or a list of names, running vertically down the left margin.